# No Flu Vaccination (Adults Age 65+)

## No Flu Vaccination (Adults Age 65+)

- •Most recent data (2013): 36% or about 82,600 King County adults age 65+.
  •Trend over time: 2001-13: rising
  •Description: Did not have a flu shot within the past year

## No flu vaccination (adults age 65+), King County, 2009-2013 average

|                              | Percent        | Lower CI | Upper CI |  |  |  |
|------------------------------|----------------|----------|----------|--|--|--|
| King County (adults age 65+) | 34             | 32       | 36       |  |  |  |
| AGE                          |                |          |          |  |  |  |
| 65+                          | 34             | 32       | 36       |  |  |  |
| GENDER                       |                |          |          |  |  |  |
| Male                         | 34             | 30       | 37       |  |  |  |
| Female                       | 34             | 31       | 36       |  |  |  |
| RACE/ETHNICITY               | RACE/ETHNICITY |          |          |  |  |  |
| AIAN                         | *              | *        | *        |  |  |  |
| Asian                        | 26             | 18       | 36       |  |  |  |
| Black                        | 47             | 35       | 59       |  |  |  |
| Hispanic                     | 28 §           | 14 §     | 49 §     |  |  |  |
| Multiple                     | 39             | 24       | 57       |  |  |  |
| NHPI                         | *              | *        | *        |  |  |  |
| White                        | 34             | 32       | 36       |  |  |  |
| HOUSEHOLD INCOME             |                |          |          |  |  |  |
| <\$15,000                    | 37             | 26       | 50       |  |  |  |
| \$15,000 to \$24,999         | 34             | 28       | 40       |  |  |  |
| \$25,000 to \$34,999         | 27             | 23       | 33       |  |  |  |
| \$35,000 to \$49,999         | 34             | 30       | 38       |  |  |  |
| \$50,000 to \$74,999         | 35             | 31       | 40       |  |  |  |
| \$75,000+                    | 34             | 29       | 39       |  |  |  |
| REGION                       |                |          |          |  |  |  |
| East                         | 33             | 29       | 36       |  |  |  |
| North                        | 30             | 24       | 37       |  |  |  |
| Seattle                      | 34             | 30       | 38       |  |  |  |
| South                        | 36             | 33       | 39       |  |  |  |

### Comparisons:

Higher than King County rate (yellow) Lower than King County rate (green)

Source: Behavioral Risk Factor Surveillance System.

Prepared by Public Health - Seattle & King County, APDE, 01/2015.

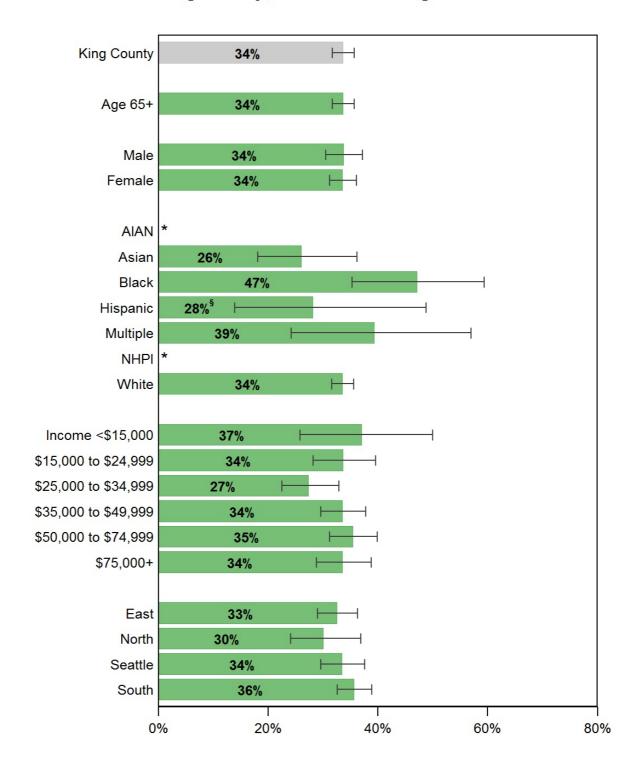
CI is 95% Confidence Interval.

\* Too few cases to protect confidentiality and/or report reliable rates.

§ Too few cases to meet precision standard, interpret with caution.

Persons of Hispanic ethnicity can be of any race and are included in the racial categories.

# No flu vaccination (adults age 65+) King County, 2009-2013 average



Source: Behavioral Risk Factor Surveillance System.

Prepared by Public Health - Seattle & King County, APDE, 01/2015. |-----| Confidence interval shows range that includes true value 95% of the time.

§ Too few cases to meet precision standard, interpret with caution. Persons of Hispanic ethnicity can be of any race and are included in the racial categories.

Too few cases to protect confidentiality and/or report reliable rates.

## No flu vaccination (adults age 65+) by comparison areas

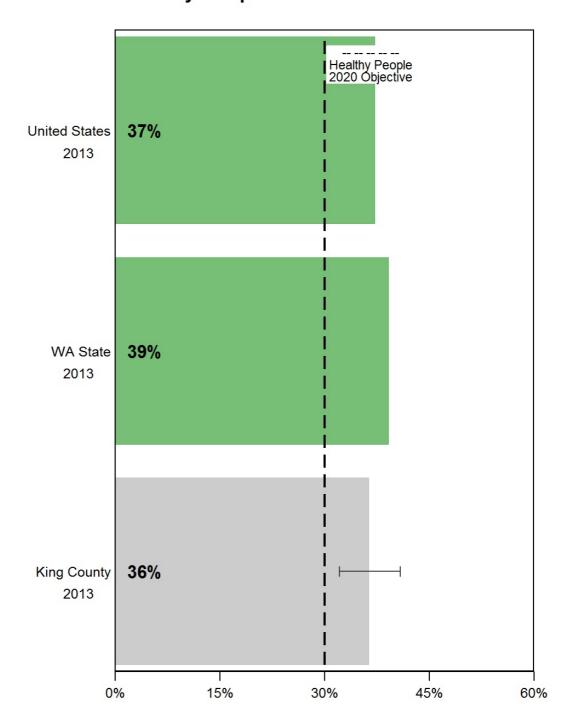
The Healthy People 2020 Objective for no flu vaccination (adults age 65+) is 30%.

|               | Latest Available Year | Percent | Lower CI | Upper CI |
|---------------|-----------------------|---------|----------|----------|
| United States | 2013                  | 37      | N/A      | N/A      |
| WA State      | 2013                  | 39      | N/A      | N/A      |
| King County   | 2013                  | 36      | 32       | 41       |

Source: Behavioral Risk Factor Surveillance System. Prepared by Public Health - Seattle & King County, APDE, 01/2015. N/A: Not available.

CI is 95% Confidence Interval.

# No flu vaccination (adults age 65+) by comparison areas



Source: Behavioral Risk Factor Surveillance System.
Prepared by Public Health - Seattle & King County, APDE, 01/2015.
|-----| Confidence interval shows range that includes true value 95% of the time.

## No flu vaccination (adults age 65+) by health reporting areas, King County, 2009-2013 average

| March   Marc |                              | Percent | Lower CI | Upper CI |
|--|------------------------------|---------|----------|----------|
| Automation   42   32   53   Automation   42   30   55   Automation   42   30   55   Automation   42   30   55   55   Automation   43   36   61   18   28   61   18   28   61   18   28   61   18   28   62   61   18   28   28   33   28   28   33   28   28   | King County (adults age 65+) | 34      | 32       |          |
| Authors  | i                            |         |          |          |
| Automotive Process   Section   Sec |                              |         |          |          |
| Sear Cress/Contration/Dual   37   28   47  |                              |         |          |          |
| Belleuse   32   26   38  |                              |         |          |          |
| Eletinose According   37   |                              |         |          |          |
| Belleman Number  |                              |         |          |          |
| Belieux World  |                              |         |          |          |
| Believe Niver   31   |                              |         |          |          |
| Back Danova/StrumbleWSE County         35         27         44           Butien         29         18         43           Butien         30         19         43           CountportAlighe Valley         32         21         45           Des Richard Way         43         20         58           East Footral Way         43         20         58           Federal Way         34         24         44           Fed Way Chash Protri/Wildowshy         34         24         44           Fed Way Chash Protri/Wildowshy         34         22         50           Fed Way Chash Protri/Wildowshy         34         22         25           Fed Way Chash Protri/Wildowshy         34         22         25           Fed Way Chash Protri/Wildowshy         34         22         21         47           Kern Contrill         32         21         19         47           Kernword LPP         30         19         45         6           Kort         34         25         42         44           Kort         34         25         42         42           Kort East         48         32         65 <td></td> <td></td> <td></td> <td></td>  |                              |         |          |          |
| Bathelif Nocinterion   29  |                              |         |          |          |
| Burlen   30   19   43  |                              |         |          |          |
| Coolings Nichogo Nic |                              |         |          |          |
| Des Moresi-Normandy Park         36         26         48           East Federal Way         43         29         58           Federal Way         34         24         44           Fed Way-Creat and Mittary R4         34         22         50           Jed Way-Creat and Mittary R4         32         21         47           Leanuach         32         21         47           Kermany-Creat R4         32         19         47           Kermand R4         36         22         65           Jean Mark         34         28         32         65           Jean Mark         48         32         65         42           Jean Mark         48         32         65         42           Jean Mark         49         25         45         45           Jedical A         33         24         42         53           Jedicitical A         38         24         53         45   |                              |         |          |          |
| East Federal Way   |                              |         |          |          |
| Fairboox   35  |                              |         |          |          |
| Federal Way  |                              |         |          |          |
| Fed Way-Central/Military Rd  |                              |         |          |          |
| Fed Wky-Dash Point/Woodmont   32   |                              |         |          |          |
| Seaguah   32   19   47   |                              |         |          |          |
| Remoneral LPP   30   |                              |         |          |          |
| Kert   | · ·                          |         |          |          |
| Kert-East  |                              |         |          |          |
| Kert-SE         29         20         40          Kert-West         •         •         •           Krikfard         35         25         45          Kirkland         38         24         53          Kirkland         31         21         42           Mercar SlaPP Cities         20         14         29           Newcastle/Four Creeks         46         32         61           North Highine         •         •         •         •           Reductor         46         32         20         45           Renton         36         28         46         46          Renton-North         •         •         •         •         •          Renton-North         •         •         •         •         •         •         •         •         •         •   |                              |         |          |          |
| Kent-West  |                              |         |          |          |
| Krikand 35 25 45 45    Jifikland 38 24 53    Jifikland North 31 21 42    Mercer Isle/Pt Cities 20 14 29    Newcastle/Four Creeks 46 32 61    North Highline • • • • • • • • • • • • • • • • • • •  |                              |         |          |          |
| Kirkland   38  |                              |         |          |          |
| Kirkland North         31         21         42           Mercer IslePT Cities         20         14         29           NewcastleFour Creeks         46         32         61           North Highline         •         •         •           Redmond         32         20         45           Renton         36         28         46  |                              |         |          |          |
| Mercer Isle/Pt Cities         20         14         29           Nexastle/Four Creeks         46         32         61           North Highline         *         *         *           Redmond         32         20         45           Renton         36         28         46           Renton-East         *         *         *           Renton-North         *         *         *           Renton-South         34         23         47           Sammenish         35         23         49           Seater/Tukwila         48         34         61           Seattle         34         30         38           Beallard         27         17         38           Beacon/Gtown/S.Park         *         *         *           Capital HII/E.lake         32         19         48           Carntal Seattle         48         33         64           Delridge         36         22         52           Downtown         26 §         13 §         47 §           Fremonl/Greenlake         46         23         71           RE seattle   | Kirkland                     |         |          |          |
| Newcastle/Four Oreeks         46         32         61           North Hylpline         *         *         *           Redmond         32         20         45           Renton         36         28         46          Renton-East         *         *         *          Renton-North         *         *         *          Renton-South         34         23         47          Renton-South         34         23         47  | Kirkland North               | 31      | 21       |          |
| North Highline         *         *         *           Redmond         32         20         45           Renton         36         28         46           Renton-East         *         *         *  | Mercer Isle/Pt Cities        | 20      | 14       | 29       |
| Redmond 32 20 45 Renton 36 28 46 Renton 36 28 46 Renton-East • • • • • • • • • • • • • • • • • • •   | Newcastle/Four Creeks        |         |          |          |
| Renton         36         28         46          Renton-East         *         *         *          Renton-North         *         *         *          Renton-South         34         23         47           Sammarnish         35         23         49           SeatTac/Tukwila         48         34         61           Seattle         34         30         38          Ballard         27         17         38          Beacon/Glown/S.Park         *         *         *          Capitol HIWE.lake         32         19         48          Central Seattle         48         33         64          Delridge         36         22         52          Downtown         26 §         13 §         47 §          Fremont/Greatile         28         20         39          NE Seattle         28         20         39          North Seattle         40         30         51          QA/Magnorila         29         21         38          SE Seattle         28         17         43          West Seattle         35  | North Highline               | *       | *        | *        |
| Renton-East         •         <  | Redmond                      | 32      | 20       | 45       |
| Renton-North   | Renton                       |         |          |          |
| Renton-South   34   23   47     Sammanish   35   23   49     SeaTac/Tukwila   48   34   61     Seattle   34   30   38    Ballard   27   17   38    Beacon/Clown/S.Park   * * * * * * * * * * * * * * * * * *   | Renton-East                  |         |          |          |
| Sammariish         35         23         49           SeaTac/Tukwila         48         34         61           Seattle         34         30         38          Ballard         27         17         38          Beacon/Gtown/S.Park         *         *         *          Capitol Hil/E.lake         32         19         48          Capitol Hil/E.lake         32         19         48          Capitol Hil/E.lake         33         64          Central Seattle         48         33         64          Delridge         36         22         52          Downtown         26 §         13 §         47 §          Fremont/Greenlake         46         23         71          NE Seattle         28         20         39          Noth Seattle         32         23         43          NW Seattle         40         30         51          SE Seattle         28         17         43          SE Seattle         28         17         43          SE Seattle         35         26         44           Shoreline         3  | Renton-North                 | *       | *        | *        |
| SeaTac/Tukwila         48         34         61           Seattle         34         30         38          Ballard         27         17         38          Beacon/Glown/S.Park         *         *         *          Capitol Hill/E.lake         32         19         48          Central Seattle         48         33         64          Dehridge         36         22         52          Downtown         26 §         13 §         47 §          Fremont/Greenlake         46         23         71          NE Seattle         28         20         39          North Seattle         32         23         43          NW Seattle         40         30         51          QA/Magnolia         29         21         38          SE Seattle         28         17         43          West Seattle         35         26         44           Shoreline         31         23         39           Snoqualmie/North Bend/Skykomish         48         34         62  | Renton-South                 | 34      | 23       | 47       |
| Seattle         34         30         38          Ballard         27         17         38          Beacon/Gtown/S.Park         *         *         *          Capitol Hill/E.lake         32         19         48          Central Seattle         48         33         64          Delridge         36         22         52          Downtown         26 §         13 §         47 §          Fremont/Greenlake         46         23         71          NE Seattle         28         20         39          North Seattle         32         23         43          NW Seattle         40         30         51          QA/Magnolia         29         21         38          SE Seattle         28         17         43          West Seattle         35         26         44           Shoreline         31         23         39           Snoqualmie/North Bend/Skykomish         48         34         62  | Sammamish                    | 35      | 23       | 49       |
| Ballard       27       17       38         .Beacon/Gtown/S.Park       *       *       *         .Capitol Hill/E.lake       32       19       48         .Central Seattle       48       33       64         .Delridge       36       22       52         .Downtown       26 §       13 §       47 §        Fremont/Greenlake       46       23       71        NE Seattle       28       20       39        North Seattle       32       23       43        NW Seattle       40       30       51        QA/Magnolia       29       21       38        SE Seattle       28       17       43        West Seattle       35       26       44         Shoreline       31       23       39         Snoqualmie/North Bend/Skykomish       48       34       62  | SeaTac/Tukwila               | 48      | 34       | 61       |
| Beacon/Gtown/S.Park   *  | Seattle                      | 34      | 30       | 38       |
| Capitol Hill/E.lake   32   19   48   | Ballard                      | 27      | 17       | 38       |
| Central Seattle       48       33       64        Delridge       36       22       52        Downtown       26 §       13 §       47 §        Fremont/Greenlake       46       23       71        NE Seattle       28       20       39        North Seattle       32       23       43        NW Seattle       40       30       51        QA/Magnolia       29       21       38        SE Seattle       28       17       43        West Seattle       35       26       44         Shoreline       31       23       39         Snoqualmie/North Bend/Skykomish       48       34       62   | Beacon/Gtown/S.Park          | *       | *        | *        |
| Delridge       36       22       52        Downtown       26 §       13 §       47 §        Fremont/Greenlake       46       23       71        NE Seattle       28       20       39        North Seattle       32       23       43        NW Seattle       40       30       51        QA/Magnolia       29       21       38        SE Seattle       28       17       43        West Seattle       35       26       44         Shoreline       31       23       39         Snoqualmie/North Bend/Skykomish       48       34       62   | Capitol Hill/E.lake          | 32      | 19       | 48       |
| Downtown         26 §         13 §         47 §          Fremont/Greenlake         46         23         71          NE Seattle         28         20         39          North Seattle         32         23         43          NW Seattle         40         30         51          QA/Magnolia         29         21         38          SE Seattle         28         17         43          West Seattle         35         26         44           Shoreline         31         23         39           Snoqualmie/North Bend/Skykomish         48         34         62  | Central Seattle              | 48      | 33       | 64       |
| Downtown         26 §         13 §         47 §          Fremont/Greenlake         46         23         71          NE Seattle         28         20         39          North Seattle         32         23         43          NW Seattle         40         30         51          QA/Magnolia         29         21         38          SE Seattle         28         17         43          West Seattle         35         26         44           Shoreline         31         23         39           Snoqualmie/North Bend/Skykomish         48         34         62  | Delridge                     | 36      | 22       | 52       |
| Fremont/Greenlake       46       23       71        NE Seattle       28       20       39        North Seattle       32       23       43        NW Seattle       40       30       51        QA/Magnolia       29       21       38        SE Seattle       28       17       43        West Seattle       35       26       44         Shoreline       31       23       39         Snoqualmie/North Bend/Skykomish       48       34       62   |                              |         |          |          |
| NE Seattle     28     20     39      North Seattle     32     23     43      NW Seattle     40     30     51      QA/Magnolia     29     21     38      SE Seattle     28     17     43      West Seattle     35     26     44       Shoreline     31     23     39       Snoqualmie/North Bend/Skykomish     48     34     62   |                              |         |          |          |
| North Seattle     32     23     43      NW Seattle     40     30     51      QA/Magnolia     29     21     38      SE Seattle     28     17     43      West Seattle     35     26     44       Shoreline     31     23     39       Snoqualmie/North Bend/Skykomish     48     34     62  |                              |         |          |          |
| NW Seattle     40     30     51      QA/Magnolia     29     21     38      SE Seattle     28     17     43      West Seattle     35     26     44       Shoreline     31     23     39       Snoqualmie/North Bend/Skykomish     48     34     62  |                              |         |          |          |
| QA/Magnolia     29     21     38      SE Seattle     28     17     43      West Seattle     35     26     44       Shoreline     31     23     39       Snoqualmie/North Bend/Skykonish     48     34     62   |                              |         |          |          |
| SE Seattle     28     17     43      West Seattle     35     26     44       Shoreline     31     23     39       Snoqualmie/North Bend/Skykomish     48     34     62   |                              |         |          |          |
| West Seattle         35         26         44           Shoreline         31         23         39           Snoqualmie/North Bend/Skykomish         48         34         62  |                              |         |          |          |
| Shoreline         31         23         39           Snoqualmie/North Bend/Skykomish         48         34         62  |                              |         |          |          |
| Snoqualmie/North Bend/Skykomish 48 34 62   |                              |         |          |          |
|  |                              |         |          |          |
| 1 Vascrici (Station 1  |                              |         |          |          |
| Comparisons:   | Vashon Island                | 23      | 13       | 3/       |

## Comparisons:

Higher than King County rate (yellow)

Lower than King County rate (green)

Notes:

Source: Behavioral Risk Factor Surveillance System.

Prepared by Public Health - Seattle & King County, APDE, 01/2015.

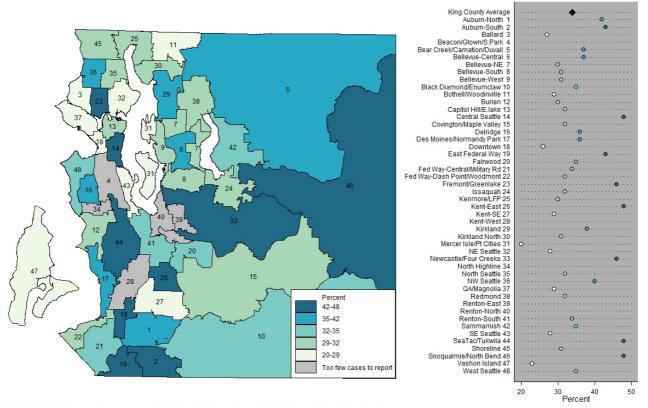
Cl is 95% Confidence Interval.

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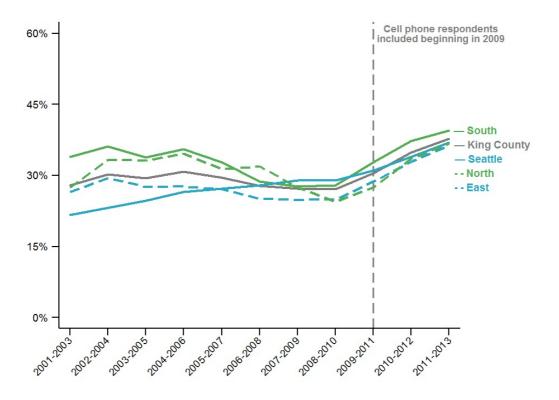
## No flu vaccination (adults age 65+) by health reporting areas King County, 2009-2013 average



Note: HRA labels on the map match the chart on the right, listed in alphabetical order Source: Behavioral Risk Factor Surveillance System.

Prepared by Public Health - Seattle & King County, APDE, 01/2015.

# No flu vaccination (adults age 65+) King County, 2001-2013, three-year rolling averages



Source: Behavioral Risk Factor Surveillance System. Prepared by Public Health - Seattle & King County, APDE, 01/2015.

Produced by the
Assessment, Policy Development & Evaluation Unit
Public Health - Seattle & King County
01/15

